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turbo engine ceramic coating blades

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Thermal barrier coating

system for superalloy components

US Pat. 5514482 - Filed Apr 25, 1984 - AlliedSignal Inc.

3 is a photograph of a **turbo-prop engine** turbine showing high pressure ...the **blades** at a rate of about 0.2 mil/min. to form the **ceramic coating** layer. ...

Thermal barrier coating and method of depositing the same on combustion ...

US Pat. 5384200 - Filed Apr 18, 1994 - Detroit Diesel Corporation

However, experience has shown that the **ceramic** coatings and techniques for application to apparatus such as gas turbine **engine blades**, previously referenced ...

Burst guard ring for turbo-engine housings

US Pat. 4818176 - Filed Apr 7, 1988 - MTU Motoren-und Turbinen-Union Muenchen GmbH

1 shows a turbine **engine** 6, having a rotor 7 5 with **blades** 8 distributed around its... **Ceramic** tiles 14a and 146 are similarly arranged in the area ...

Abradable shroud coating

US Pat. 4867639 - Filed Sep 22, 1987 - Allied-Signal Inc.

The soft **ceramic** phase (19) is poured or sprayed into the open cells of the ...In a gas turbine **engine** of the type having rotating **blades** surrounded by a ...

Metal intermediate layer and method of making it

US Pat. 4471008 - Filed Aug 2, 1982 - MTU Motoren-Und-Turbinen Union Munchen GmbH

The invention will be described in relation to a **turbo-** machine, eg, ... the use of a **ceramic** material for the rotor **blades**, inclusive of their roots, ...

Method for in-situ eddy current inspection of coated components in turbine ...

US Pat. 6707297 - Filed Apr 15, 2002 - General Electric Company

Rotor **blades** generally include airfoils (also indicated by reference numeral 20)... In addition, the airfoil may also include an outer **ceramic coating** 23, ...

Construction elements produced by powder metallurgy

US Pat. 4886639 - Filed Apr 30, 1987 - MTU Motoren- und Turbinen-Union Muenchen GmbH

... frame 2 or some such container of metal or **ceramic** to be freely suspended,... in connection with **blades** or rotors in the **turbo engine** construction. ...

High temperature, oxidation-resistant abradable coatings containing ...

US Pat. 6916529 - Filed Jan 9, 2003 - General Electric Company

In order to achieve maximum **engine** efficiency, the buckets must rotate freely within the ... Another problem relates to the relationship between **coating** ...

Uncoupled, thermal-compressor, gas-turbine engine

US Pat. 6796123 - Filed Nov 1, 2002

2.57 This claim is for a monolithic **ceramic** heater formed by sintering and comprised ... and with a mask that covers the stator **blades** associated with the ...

Method of selective region vapor phase aluminizing

US Pat. 7163718 - Filed Oct 15, 2003 - General Electric Company

While a straight turbojet **engine** and a low-bypass **turbo-fan engine** will ... coatings or thermal barrier systems (a bond coat with **ceramic** top coat). ...

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Thermal barrier coating

system for superalloy components

US Pat. 5514482 - Filed Apr 25, 1984 - AlliedSignal Inc.

 Power to evaporate the **ceramic coating** material is provided by a ... 3 is a photograph of a **turbo-prop engine** turbine showing high pressure turbine blades ...

Drive system including an engine and a turbo-charger

US Pat. 4927336 - Filed Dec 7, 1987 - MTU Motoren-Und Turbinen-Union Muenchen GmbH

 However, the shaft and second exhaust gas discharge pipe means connect- end in FIG. is provided with a **ceramic coating** ing said turbine section to said ...

Heat engine parts made of alloy and having a metallic-ceramic protective ...

US Pat. 5057379 - Filed May 23, 1988 - Societe Nationale d'Etude et de Construction de Moteurs d'Aviation "S.N.E.C.M.A."

 A **turbo** machine part according to claim 3, metallic structure and the outer **ceramic coating**. As wherein said metallic structure is composed of M, Cr, ...

System for reduction of harmful exhaust emissions from diesel engines

US Pat. 5987882 - Filed Apr 19, 1996 - Engelhard Corporation

Ceramic (catalyst) Coated Parts: The **engine** parts coated with **ceramic ...** spray **coating** of **Coating B**. One set of exhaust manifolds and pre-**turbo** pipes ...

System for reduction of harmful exhaust emissions from diesel engines

US Pat. 6006516 - Filed Apr 11, 1997 - Engelhard Corporation

Ceramic (catalyst) Coated Parts: The **engine** parts coated with **ceramic ...** spray **coating** of **Coating B**. One set of exhaust manifolds and pre-**turbo** pipes ...

Method of forming heat engine parts made of a superalloy and having a ...

US Pat. 5124006 - Filed Sep 17, 1990 - Societe Nationale d'Etude et de Construction de Moteurs d'Aviation "S.N.E.C.M.A."

 ... the invention provides a METALLIC-CERAMIC PROTECTIVE COATING heat **engine** part ... on May cially a **turbo-machine** part made of superalloy which is **coating** ...

Piston for internal combustion engines

US Pat. 4711208 - Filed Apr 11, 1986 - Kolbenschmidt AG

 The high 20 region of the piston heat which is spaced around the **engine** output ... Temperatures up bustion recess and the **ceramic coating** is provided in to ...

Adiabatic internal combustion engine with regenerator and hot air ignition

US Pat. 6606970 - Filed Oct 16, 2001

Ceramic coating 1114 protects 45 further comprising a rapid leakdown lifter for ... For instance, a **turbo**- rotate approximately 60 degrees out of phase, ...

System for reduction of harmful exhaust emissions from diesel engines

US Pat. 6256984 - Filed Sep 7, 1999 - Engelhard Corporation

This pre-**turbo** exhaust system not only provides a relatively large interior ... and **ceramic coating** materials was first determined by laboratory testing. ...

Thermal barrier **coating** and method of depositing the same on combustion ...

US Pat. 5384200 - Filed Apr 18, 1994 - Detroit Diesel Corporation

45 The above **ceramic** materials were developed principally for application to high speed turbine blades, such as used in commercial aircraft, **turbo** engines. ...

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